L 63007-65

ACCESSION NR: AP5016271

$$\beta = (1+\delta)^3 [(1+\delta)^2 + (4K)^{-1}(2+\delta)]^{-1},$$

$$K = \sqrt{\frac{\pi\varkappa}{2}}\frac{M}{Re}, \quad Re = \frac{\rho V d}{\mu}, \quad d = r_0(R-1) = \delta r_0,$$

which tends to the correct plane Couette flow solution in the limit $\delta \to 0$. It is shown that the above solution is the sum of the free molecular flow solution and the continuum solution given by the Navier-Stokes equation. Orig. art. has: 9 equations.

ASSOCIATION: none

SUBMITTED: 04Jan65 ENCL: 00 SUB CODE: ME

NO REF SOV: 000 OTHER: 003

Card 2/2

L 7921-66 EWT(1)/EWP(m)/EWA(d)/ETC(m)/EWA(1) WW

ACC NR: AP5026695 SOURCE CODE: UR/0258/65/005/005/0954/0958

AUTHOR: Gaikin, V. S. (Moscow)

44,55

ORG: None

55

B

TITLE: Determination of the moments and forces acting on a rotating body in free molecular flow and in a light flux

SOURCE: Inzhenernyy zhurnal, v. 5, no. 5, 1965, 954-958

1, 44, 55

TOPIC TAGS: rotation, solid mechanics, fluid mechanics, free molecular flow, light radiation

ABSTRACT: We designate by p and tau the normal and tangential components of the forces acting on an element of surface of the body, related to the velocity head $\rho V_0^2/2$. The direction of tau is given by a unit vector of the tangent to the surface of the body, t, directed so that

$$t \sin\theta = n \times \left(\frac{V}{V} \times n\right) = \frac{V}{V} - n\cos\theta. \qquad (1)$$

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UDC: 533.6.011.8

L 7922-66

ACC NR: AP5026695

Here n is the unit vector of the internal normal to the surface of the body; theta is the angle between n and V, the velocity vector of the element

$$V = V_0 + \Omega \times r_A, \qquad (2)$$

Omega is the vector of the angular velocity of the body; r_A is the radius vector of the element with respect to the center of mass A. Based on these premises, the article derives a formula for determination of M_d, the moment of force due to the rotation of the body. It is stated that this solution can be applied also to determination of M_d for an arbitrarily rotating plate, an important case in practice. Orig. art. has: 9 formulas.

SUB CODE:ME/ SUBM DATE: 08May65/ ORIG REF: 003/ OTH REF: 004

Card 2/2

L 10904-66 EWT(m)/T/EWA(m)-2/EWA(h) IJP(c)

ACC NR: AP6002614 SOURCE CODE: UR/0258/65/005/006/1010/1020

AUTHOR: Galkin, V. S. (Moscow); Gusev, V. N. (Moscow); Klimova, T. V. (Moscow)

ORG: none

TITLE: Characteristics of a hypersonic viscous gas flow past bodies of simplest shape and their aerodynamic characteristics

SOURCE: Inzhenernyy zhurnal, v. 5, no. 6, 1965, 1010-1020

TOPIC TAGS: hypersonic aerodynamics, aerodynamic characteristics, viscous flow, boundary layer, lift, drag coefficient, friction coefficient

ABSTRACT: This paper presents an analysis of theoretical and experimental data obtained from a large number (19) of studies related to the characteristics of hypersonic viscous gas flows past slender sharp- and blunt-nosed cones and their aerodynamic characteristics at various angles of attack in thermodynamically perfect gas flows. In section 1, hypersonic viscous flows past heat-insulated and cooled ($T_w << T_0$) slender, sharp-nosed cones with various semiapex angles θ and angles of attack α are considered. The behavior of drag and lift coefficients under various flow conditions, their dependence on the Knudsen number and parameter $\theta\sqrt{R_e}$, and the limits of applicability of the free molecular theory are discussed. Section 2 deals with hypersonic viscous flows past blunt-nosed cones and discusses the effects of viscosity and bluntness on the drag coefficient, the boundary

Card 1/2 UDC: 533.6.011.55

L 10904-66

ACC NR: AP6002614

layer displacement effect on flow, similarity parameters, and conditions at various angles of attack. Hypersonic rarefied gas flows over flat plates are treated in section 3, where the effect of rarefaction on the friction coefficient, the flow above the plate and the influence of the angle of attack on zones of rarefaction are examined. An approximate method for calculating the flow past slender blunted bodies is outlined in section 4. The complexity of the determination of the inviscid part of the flow is stressed and the necessity of using rough assumptions, as has been done by H. K. Cheng (TASS v. 28, no. 5, 1961), is pointed out. Hypersonic, viscous flow past a blunt-nosed cone is treated as an illustrative example, assuming that the pressure on the outer boundary of an entropy layer is given by the Busemann formula. Distributions of boundary layer thickness, friction and drag coefficients, and pressure on the cone surface were calculated on a computer. The pressure distribution which characterizes the effect of boundary layer—viscous flow interaction on the flow structure is given in graphs and appears primarily in the region of minimum pressure and behind it. Orig. art. has: 9 figures and 4 formulas. [AB]

SUB CODE: 20 SUBM DATE: 15Jun65/ ORIG REF: 011/ OTH REF: 008/ ATD PRESS: 4172

Card 2/2

L 08064-67 EWT(1)/EWP(m)

ACC NR: AP6034537 SOURCE CODE: UR/0421/66/000/005/0041/0050

AUTHOR: Galkin, V. S. (Moscow)

ORG: none

TITLE: On exact solutions of kinetic moment equations of monatomic gas mixtures

SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 5, 1966, 41-50

TOPIC TAGS: reentry aerodynamics, rarefied gas, gas kinetics, Boltzmann equation, Navier-Stokes equation, transverse flow, plane flow

ABSTRACT: A class of exact solutions of a system of kinetic moment equations of a monatomic gas in the absence of external forces is generalized to the case of a mixture of monatomic Maxwellian gases with external forces taken into account. The simplest solutions are obtained for this class of flows that can be considered as examples of the conventional solution of the Boltzmann equation with the Chapman-Enskog approach. These various exact solutions are analyzed and the applicability of various methods to solving the Boltzmann equation is discussed. It was found that the most important property of these solutions is that their expansions in 1/K power series, related to a free-molecular solu-

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L 08064-67

ACC NR: AP6034537

tion, converge over a substantially greater range of K than the Chapman-Enskog series, and even includes the $K \geq 1$ domain. The author considers this as confirmation of the effectiveness of the iteration method and expansions in series as ways to solve the Boltzmann equation in calculations of rarefied gas flows over bodies. Orig. art. has: 48 formulas.

SUB CODE: 20/ SUBM DATE: 24Nov65/ ORIG REF: 010/ OTH REF: 004/
ATD PRESS: 5102

Card 2/2

FILATOV, Leonid Sergeyevich; KRYUKOV, V.L., red.; GALKIN, V.T., red.; PROKOF'YEVA, L.N., tekhn. red.

[Operating tractors and motor vehicles in winter] Ekspluatatsiia traktorov i avtomobilei v zimnikh usloviiakh. Moskva, Izd-vo sel'khoz.lit-ry, zhurnalov i plakatov, 1961. 151 p. (MIRA 15:1)

(Tractors—Cold weather operation)
(Motor vehicles—Cold weather operation)

USSR/Chemistry - Reagent proportioners FD-2735

Card 1/1 Pub. 50 - 16/20

Author : Galkin, V. V.

Title : Microdosage appliance for feeding small quantities of liquid into catalytic reactors and furnaces

Periodical : Khim. prom. No 5, 301, Jul-Aug 1955

Abstract : The design and operation of an appliance are described by means of which small quantities of liquid reagents are fed into laboratory reactors and laboratory catalytic furnaces. One figure.

Institution : Yaroslavl' Technological Institute

PROKOF'YEV, Nikolay Nikolayevich; GALKIN, V.V., red.; SHEVCHENKO, F.Ya., tekhn.red.

[Summary principles of emergency surgical diagnosis] Kratkie osnovy neotlozhnoi khirurgicheskoi diagnostiki. Izd.3., ispr. i dop. Petrozavodsk, Gos.izd-vo med.lit-ry, 1959. 246 p. (MIRA 13:5)

(DIAGNOSIS, SURGICAL)

GALKIN, Ya., kand.tekhn.nauk

Literature on automation and mechanization in construction. Na stroi. Ros. no.8:39 Ag '61. (MIRA 14:9)
(Bibliography--Building--Technological innovations)

86-1-20/30

AUTHORS: Kogan, N.G., Eng Maj and Galkin, Ya.B., Eng Maj

TITLE: Maintenance of Airfields in Winter (Soderzhaniye aerodroma zimoy)

PERIODICAL: Vestnik Vozdushnogo Flota, 1958, Nr 1, pp. 66-68 (USSR)

ABSTRACT: The article deals with the problem of how to prolong the duration of service life of paved runways (concrete, asphalt, or metal surfacing) of the airfields. Considerable damage is done to the paved runways not only during the snow removal by snowplows, but also by the use of chemicals and heat against the ice. The sharp changes in temperature have a damaging effect, particularly on the asphalt and concrete pavement of runways. Much damage is done to the paved runways by the fact that the soil below the pavement freezes much deeper than the unpaved soil covered with snow and with the arrival of warm

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weather the foundation under the pavement begins to thaw out earlier than under the side strips of the runway. The authors suggest that the paved runways should not be used during the winter in regions with considerably low temperatures, instead, unsurfaced strips should be used for the landing and takeoff of aircraft. In case the paved runways are equipped with permanent landing lights, they, of course, must be cleaned from snow, although, the authors think that, even in such cases, it would be preferable to use unsurfaced takeoff and landing strips equipped with a portable landing light system. Sometimes up to 6 cm layer of packed snow should be left on the pavement as a protective cover against mechanical damages. According to the authors, in the interest of greater efficiency in combat readiness of the units, the everyday flights should be carried out from the unsurfaced strips of the airfield, and the paved runways should be used only in exceptional cases. Experience has shown that this is quite

possible on airfields with loamy soil and, particularly, when on the strips heavy rollers were used to improve the bearing capacity of the surface. On such improved airfields the aircraft up to 30 tons of gross weight and with a tire pressure up to 9 atm can be operated very successfully. One diagram.

AVAILABLE: Library of Congress

Card 3/3

GALKIN, YA. G.

High-speed method for constructing industrial buildings and structures

Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1952. 45 p.

(54-18330)

TH4511.M6

KOVEL'MAN, I.A., kand. tekhn. nauk; GALKIN, Ya.G., kand. tekhn. nauk, nauchnyy red.; TUMARKIN, D.M., inzh., red. izd-va; VORONIN, K.P., tekhn. red.

[Special building materials; a short handbook] Spetsial'nye stroitel'nye materialy; kratkii spravochnik. Moskva, Gos.izd-vo lit-ry po stroit., i arkhit., 1952. 250 p. (MIRA 15:1)

1. Nachal'nik otdela stroitel'nykh materialov TSentral'nogo instituta informatsii po stroitel'stvu (for Kovel'man).
(Building materials)

TIKHOMIROV, G.S.; DESOV, A.Ye., doktor tekhnicheskikh nauk, laureat Stalinskoy premii, professor, redaktor; GALKIN, Ya.G., kandidat tekhnicheskikh nauk, nauchnyy redaktor; IZRAILOVICH, N.Ye., inzhener redaktor; TUMARKIN, D.M., inzhener, redaktor izdatel'stva; VORONIN, K.P., tekhnicheskiy redaktor

[Scientific works of the Central Scientific Research Institute of Industrial Construction published during 25 years (1927-1952); an annotated bibliography] Uchenye trudy TsNIPS za 25 let (1927-1952); sbornik annotatsii. Sost. G.S.Tikhomirov. Pod obshchei red. A.E. Desova. Moskva, Gos. izd-vo lit-ry po stroit i arkhitekture, 1952. 286 p. (MLRA 9:11)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennykh sooruzheniy.
(Bibliography--Building)

USSR/Engineering - Construction, Bridges

15 Jun 52

"Construction of Bridges Out of Prestressed Reinforced Concrete," Ya. G. Galkin, Ya. A. Novikov, Candidates Tech Sci

"Byul Stroit Tekh" No 12, pp 16-19

Briefly reviews recent application of method and describes construction of railroad overpass on motor highway, using prestressed concrete. Span of overpass was composed of 2 sectional cantilever reinforced-concrete I-beams each 28 m long. Suggests some measures for further improvement in respect to steel conservation.

228T79

GALKIN, YA. G.

GORNOV, Vitaliy Nikolayevich; GALKIN, Ya.G., kandidat tekhnicheskikh nauk, redaktor; ROSTOVTSEVA, M.P., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Testing the strength and rigidity of industrial building materials for dwellings] Issledovaniia prochnosti i zhestkosti industrial'nykh konstruktsii zhilykh zdanii. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1954. 238 p. (MIRA 8:5)

1. Chlen-korrespondent Akademii arkhitektury SSR (for Gornov).
(Building materials--Testing)

SOVALOV, I.G., kandidat tekhnicheskikh nauk, redaktor; BEGAK, B.A., redaktor; GALKIN, Ya. G., kandidat tekhnicheskikh nauk, redaktor; ROGOVSKIY, L.V., inzhener, redaktor; UDOD, V.Ya., redaktor; VOLKOV, V.S., tekhnicheskiy redaktor; SMOL'YAKOVA, M.V., tekhnicheskiy redaktor.

[Technical specification for producing and inspecting construction and assembly work] Tekhnicheskie suloviia na proizvodstvo i priemku stroitel'nykh i montazhnykh rabot. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, Section 1[Earth work and work with boring and blasting] Zemlianye i buro-vzryvnye raboty. 1955. 36 p. Section 3[Concrete and reinforced concrete work] Betonnye i zhelezobetonnye raboty. 1955. 102 p. Section 8[Finishing operations] Otdelochnye raboty. 1955. 46 p. (MLRA 8:11)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. (Construction industry)

MAMONTOV, Igor' Ivanovich; GALKIN, Ya.G., nauchnyy redaktor; GURVICH, E.A., redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor

[Our experience in manufacturing reinforced concrete articles; work practice of the Leningrad "Barricade" plant] Nash opyt proizvodstva zhelezobetonnykh izdelii; iz praktiki raboty leningradskogo zavoda "Barrikada." Moskva, Gos. izd-vo lit-ry po stroit materialam, 1955. 66 p. (MLRA 9:7)

1. Glavnyy inzhener zavoda zhelezobetonnykh izdeliy "Barrikada" (for Mamontov)
(Reinforced concrete construction)

ONUFRIYEV, I.A., redaktor; ANICHKHIN, P.I., redaktor; BARSKOV, I.M., redaktor; GALKIN, Ya.G., redaktor; AZRILYANT, Ya.M., redaktor; S'OL'YAKOVA, M.V., tekhnicheskiy redaktor.

[All-Union conference of builders, architects, and workers in the building materials industry, in construction and road machinery building, and in planning and research organizations; Nov.30-Dec.7, 1954. Abridged reports] Vsesoiuznoe soveshchanie stroitelei, arkhitektorov i rabotnikov promyshlennosti stroitel'nykh materialov, stroitel'nogo i dorozhnogo mashinostroeniia, proektnykh i nauchno-issledovatel'skikh organizatsii, 30 noiabria-7 dekabria 1954 g. Sokrashchennyi stenograficheskii otchet. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 432 p.
(Construction industry—Congresses) (MLRA 8:11)

BUMAZHNYY, L.O., red.; GALKIN, Ya.G., red.; KISELEVICH, L.N., red.; KUZNETSOV, A.I., red.; RUBANENKO, B.R., red.; GORSHKOV, A.P., red.; TEMKINA, Ye.L., tekhn.red.

[Proceedings of the section on housing, cultural facilities, amenities, and the planning and building of towns] Sektsiia zhilishchnogo i kul'turno-bytovogo stroitel'stva, planirovki i zastroiki gorodov. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 463 p. (MIRA 12:1)

1. Vsesoyuznoye soveshchaniye po stroitel'stvu. Moscow, 1958.
2. Chlen prezidiuma Akademii stroitel'stva i arkhitektury SSSR (for Rubanenko).

(Construction industry) (City planning)

GALKIN, YA.G.

BARANOV, N.V., red.; GALKIN, Ya.G., red.; KUZNETSOV, G.F., red.; OVSYANKIN, V.I., red.; POPOV, A.N., red.; RUBANENKO, B.R., red.; SKRAMTAYEV, B.G., red.; GERASIMOVA, G.S., red.izd-va; EL'KINA, E.M., tekhn.red.

[Proceedings of the second session of the Academy of Construction and Architecture of the U.S.S.R. on problems of housing construction] Trudy II sessii Akademii stroitel'stva i arkhitektury SSSR po voprosam zhilishchnogo stroitel'stva, 15-20 maia 1957. g. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 725 p. (MIRA 11:5)

1. Akademiya stroitel'stva i arkhitektury SSSR.
(Housing)

BARANOV, N.V., red.; BURGMAN, V.V., red.; BURENIN, V.A., red.; BYLINKIN, N.P., red.; GALKIN, Ya.G., red.; GRIGOR'YEV, G.V., red.; OVSYANKIN, V.I., red.; SKRAMTAYEV, B.G., red.; STRELETSKIY, N.S., red.; YARALOV, Yu.S., red.; BARSKOV, I.M., spetsial'nyy red.; FRIDBERG, G.V., inzh., red. izd-va.

[Construction in the U.S.S.R., 1917—1957; proceedings of the third session of the Academy of Construction and Architecture of the U.S.S.R. commemorating the 40th anniversary of the Great October Socialist Revolution] Stroitel'stvo v SSSR, 1917-1957; trudy III sessii Akademii stroitel'stva i arkhitektury SSSR, posviashchennoi 40-i godovshchine Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 750 p. (MIRA 11:5)

1. Akademiya stroitel'stva i arkhitektury SSSR. 2. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Baranov). 3. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR. (for Burgman, Bylinkin). 4. Chlen-korrespondent Akademii nauk SSSR i deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Streletskiy)

(Construction industry) (Architecture)

GALKIN, Ya.G.

SOFINSKIY, I.D.; BLOKHIN, P.N.; GEL'BERG, L.A.; ZHDANOV, P.M.; IVASHCHENKO, I.P.; LEVINA, G.P.; NAUMOVA, N.A.; SMIRNOV, N.S.; ARONOVA, R.I.; NIKOLAYEV, N.A.; SHERENTSIS, A.A.; KOVALEVSKIY, I.I.; LOBACHEV, P.V.; SLADKOV, S.P.; DZIGAN, A.V.; FORAFONOV, N.K. Prinimali uchastiye: ARGANSKIY, A.S.; ASMUS, Ye.N.; BEZHALOVA, Ye.M.; BOGATYKH, Ya.D.; BURENIN, V.A.; GOL'DING, N.P.; DOMSHLAK, I.P.; MOSKALEV, S.A.; RABINOVICH, S.G.; ROGOVSKIY, L.V.; KHOKHLOVA, L.P.; SHESTOPAL, N.M.. RUBANENKO, B.R., glavnyy red.; GALKIN, Ya.G., zamest.glavnogo red.; SAPRYKIN, V.A., red.; SHCHEPETOV, V.M., red.; NOVITCHENKO, K.M., nauchnyy red.; VILKOV, G.N.,inzh., red.izd-va; TYAPKIN, B.G., red. izd-va; EL'KINA, E.M., tekhn.red.

[Building your own home] Spravochnik individual'nogo zastroishchika. Moskva, Gos.izd-vo lit-ry po stroit.materialam, 1958. 442 p. (MIRA 12:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. (Building)

GALKIN, Ya.G.

DAVYDOV, S.S., otv.red.; OVSYANKIN, V.I., red.; KUZNETSOV, G.F., red.; SKRAMTAYEV, B.G., red.; KARTASHOV, K.N., red.; GRISHIN, M.M., red.; KHOLIN, N.A., red.; GALKIN, Ya.G., red.; GORYACHEVA, T.V., red.izd-va; KULAGIN, A.Ya., red.izd-va; STEPANOVA, E.S., tekhn.red.

[Precast and prestressed reinforced concrete; proceedings of the 4th Session of the Academy of Construction and Architecture of the U.S.S.R. on problems in precast and prestressed concrete construction, June 11-14, 1958] Sbornyi i predvaritel'no napriazhennyi zhelezobeton; trudy IV sessii Akademii stroitel'stva i arkhitektury SSSR po voprosam sbornogo i predvaritel'no napriazhennogo zhelezobetona, 11-14 iiunia 1958 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 1069 p. (MIRA 12:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. 2. Deystvitel'nyye chleny Akademii stroitel'stva i arkhitektury SSSR (for all except Galkin, Goryacheva, Kulagin, Stepanova).
(Precast concrete construction) (Prestressed concrete construction)

OVSYANKIN, V.I., otv.red.; BELYAKOV, A.A., red.; BYLINKIN, N.P., red.; VLASOV, A.V., red.; GALKIN, Ya.G., red.; LIFATOV, A.P., red.; RUBANENKO, B.R., red.; SKRAMTAYEV, B.G., red.; CHERNOV, T.P., red.; KHOLIN, N.A., red.; UDOD, V.Ya., red.izd-va; GILKNSON, P.G., tekhn.red.

[Proceedings of the 5th session of the Academy of Construction and Architecture on problems in introducing industrial building methods, 17-19 December 1959] Trudy V sessii Akademii stroitel'stva i arkhitektury SSSR po voprosam industrializatsii stroitel'stva, 17-19 dekabria 1959 g. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 743 p.

(MIRA 13:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. 2. Deystvitel'nyye chleny Akademii stroitel'stva i arkhitektury SSSR (for Ovsyankin, Belyakov, Vlasov, Lifatov, Rubanenko, Skramtayev, Chernov, Kholin).

(Precast concrete construction)

TEMKIN, L.Ye., inzh., nauchn. red.; OVSYANKIN, V.I., red.; STRELETSKIY, N.S., prof., red.; GVOZDEV, A.A., prof., red.; IVANOV, Yu.M., red.; SEMENTSOV, S.A., kand. tekhn. nauk, red.; GALKIN, Ya.G., red.; KRASIL'NIKOV, P.A., red.; MURASHEV, V.I., red. [deceased]; NIKITIN, N.V., red.; TAL', K.E., kand. tekhn. nauk, red.; VILKOV, G.N., red. izd-va; GARNUKHIN, Ye.K., tekhn. red.

[Papers from the International Conference on Designing Building Elements] Mayerialy Mezhdunarodnogo soveshchaniia po raschetu stroitel'nykh konstruktsii. Moscow, 1958. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 258 p. (MIRA 14:7)

1. Mezhdunaronoye soveshchaniye po raschetu stroitel'nykh konstruktsiy. Moscow, 1958. 2. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Streletskiy, Gvozdev). 3. Chlen-korrospondent Akademii stroitel'stva i arkhitektury SSSR (for Sementsov, Tal')
(Building)

PAVLENKO, A.N., inzh.; GALKIN, Ye.G., inzh.

Launch with a jet-propulsion engine. Sudostroenie 29 no.3:39 Mr '63. (MIRA 16:4)

(Motorboats—Water jet engines)

ACC NR: AP7000143 (A) SOURCE CODE: UR/0046/66/012/004/0411/0415

AUTHORS: Bogorodskiy, V. V.; Galkin, Ye. I.

ORG: Arctic and Antarctic Research Institute, Leningrad (Arkticheskiy i antarkticheskiy n.-i. institut)

TITLE: Investigation of the internal friction of ice plates with a layer of snow during bending vibrations

SOURCE: Akusticheskiy zhurnal, v. 12, no. 4, 1966, 411-415

TOPIC TAGS: ice, snow, vibration analysis, friction

ABSTRACT: The internal friction of homogeneous ice plates with a surface snow layer was investigated during bending vibrations in the temperature region from 0 to -20C. The values for the logarithmic decrement Δ, coefficient of loss ε, and the energy absorption coefficient ψ were determined. The determination is based on the well-known expression for the eigenfrequencies of bending vibrations of plates

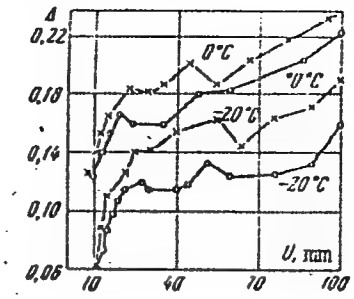
$$\omega_n = \frac{\pi^2}{4n^2} \frac{(2n-1)^2 \sqrt{Eh^2}}{\sqrt{12\rho_0(1-\nu)^2}}$$

and the experimental data of V. V. Bogorodskiy (Uprugiye kharakteristiki l'da. Akust.

Card 1/2 UDC: 534.29+539.67:551.322

ACC NR: AP7000143

Fig. 1. Logarithmic decrement Δ as a function of the temperature and amplitude of vibration



zh., 1958, 4, 19—23). Numerical values for Δ, ε, and ψ were determined with an experimental installation consisting of a vibrator, sound receivor, and oscillgraph. The experimental results are summarized in graphs and tables (see Fig. 1). It was found that the loss of mechanical energy in nonhomogeneous ice plates depends on the amplitude of vibration and the temperature. The inner friction of ice is increased considerably by a surface snow layer, especially if the thickness of the latter exceeds one half the thickness of the ice plate. The authors thank V. N. Krasil'nikov for his valuable advice. Orig. art has: 1 table, 6 graphs, and 10 equations.

SUB CODE: 20, 04/ SUBM DATE: 20Jul64/ ORIG REF: 001

Card 2/2

Galkin, Ye. M.

BARCHUK, I.F.;GALKIN, Ye.M.;PASECHNIK, M.V.;PUCHKOV, N.N.

Resolving power of scintillation spectrometers. Izv.AN SSSR.Ser. fiz.19 no.3:352-354 My-Je '55. (MLRA 9:1)

1.Institut fiziki Akademii nauk USSR.
(Moscow--Spectrum analysis--Congresses)

VLADIMIROV, B.V.; GALKIN, Ye.V.

Automatic mud-analysis logging station. Razved.i prom.geofiz. no.45:109-111 '62. (MIRA 15:11)
(Oil well logging--Equipment and supplies)
(Automatic control)

SIMKIN, Ye.V., starshiy prepodavatel'.

Presentation of the theory of limits in secondary schools.
Trudy Chel. gos. ped. inst. 2:48-54 '64. (MIRA 18:9)

ZINOV'YEV, M.M.; GALKIN, Yu.G.

Results of four years of operation of the seven-year plan in the industry of industrial asbestos products. Kauch.i rez. 22 no.4:37-39 Ap '63. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut asbestotekhnicheskikh izdeliy.

(Asbestos)

GALKIN, Yu.

Materials on characteristics of mollusks of Aniva Gulf (Okhotsk Sea). Trudy Zool.inst. 13:242-249 '53. (MLRA 7:5)
(Aniva Gulf--Mollusks) (Mollusks--Aniva Gulf)

GALKIN , Yu I

N/5
633.2
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Bryukhonogiye Mollyuski Trokhidy dal'nevostochnykh i severnykh morey SSSR (Gastropod Mollusks trochidae of the far eastern and northern seas of the USSR) Moscka, Gos. Izd-Vo An SSSR, 1955.
131 p. illus., Diagrs., Maps, Tables (Opreditel i po faune SSSR, no. 57)
At head of title: Akademiya Nauk SSSR. Zoologicheskiy Institut.

GALKIN, Yu.I.

AKUMUSHKIN, I.I.; BARANOVA, Z.I.; BRODSKIY, K.A.; VIRKETIS, M.A.; VOLODCHEKO, N.I.; GALKIN, Yu.I.; GUR'YANOVA, Ye.F.; DOGEL' V.A.; D'YAKONOV, A.M.; ZEVINA, G.B.; IVANOV, A.V.; KIR'YANOVA, Ye S.; KOBYAKOVA, Z.I.; KOLTUN, V.M.; KONZHUKOVA, Ye.D.; KOROTKEVICH, V.S.; KLYUGE, G.A.; LOZINA-LOZINSKIY, L.K.; LOMAKINA, N.B.; NAUMOV, D.V.; PERGAMENT, T.S.; RESHETNYAK, V.V.; SAVEL'YEVA, T.S.; SKARLATO, O.A.; SOKOLOV, I.I.; STRELKOV, A.A.; TARASOV, N.I.; USHAKOV, P.V.; SHCHEDRINA, Z.G. YAKOVLEVA, A.M.; USHAKOV, P.V., obshchiy rukovoditel'; PAVLOVSKIY, Ye.N., akademik, redaktor; STRELKOV, A.A. redaktor; BRODSKIY, K.A., redaktor; ARONS, R.A., tekhnicheskiy redaktor.

[Atlas of invertebrates of the Far East seas of the U.S.S.R.] Atlas bespozvonochnykh dal'nevostochnykh morei SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1955. 240 p., 66 plates. (MLRA 8:10)

1. Akademiya nauk SSSR. Zoologicheskiy institut.
(Soviet Far East--Invertebrates)

LINDBERG, G.U.; SHCHEDRINA, Z.G.; DOGEL', V.A.; RESHETNYAK, V.V.; STRELKOV, A.A.; KOLTUN, V.M.; NAUMOV, D.V.; IVANOV, A.V.; BYKHOVSKIY, B.Ye. ZHUKOV, Ye.V.; PERGAMENT, T.S.; KOROTKEVICH, V.S.; USHAKOV, P.V.; KLYUGE, G.A.; ANDROSOVA, Ye.I.; GOSTILOVSKAYA, M.G.; BRODSKIY, K.A.; GUSEV, A.V.; TARASOV, N.I.; GUR'YANOVA, Ye.F.; VAGIN, V.L.; LOMAKINA, N.B.; BULYCHEVA, A.I.; KOBYAKOVA, Z.I.; LOZINO-LOZINSKIY, L.K.; YAKOVLEVA, A.M.; GALKIN, Yu.I.; SKARLATO, O.A.; AKIMUSHKIN, I.I.; D'YAKONOV, A.M.; BARANOVA, Z.I.; SAVEL'YEVA, T.S.; SKALKIN, V.A.

List of the fauna of marine waters of southern Sakhalin and southern Kuriles. Issl.dal'nevost.mor.SSSR no.6:173-256 '59. (MIRA 13:3)

1. Zoologicheskiy institut AN SSSR.
(Sakhalin--Marine fauna)
(Kurile Islands--Marine fauna)

GALKIN, Yu.I.

Acclimatization and transportations of the Kamchatka crab. Trudy MMBI no.2:253-270 '60. (MIRA 14:2)
(Kamchatka--Crabs) (Animal introduction)

GALKIN, Yu.I.

More on the acclimatization of the Kamchatka crab in the Barents Sea. Trudy MMBI no.4:252-253 '62. (MIRA 15:11)

1. Laboratoriya gidrobiologii (zav. - M.M. Kamshilov) Murmanskogo morskogo biologicheskogo instituta.
(Barents Sea--Crabs)
(Animal introduction)

GALKIN, Yu.I.

Water temperature and the productivity of zooplankton in the southern Barents Sea. Okeanologiia 3 no.2:324-330 '63. (MIRA 16:4)

(Barents Sea--Zooplankton)
(Barents Sea--Ocean temperature)

GALKIN, Yu.I.

Duration of the period between moltings in the Kamchatka crab. Zool. zhur. 42 no.5:763-766 '63. (MIRA 16:7)

1. Murmansk Marine Biological Institute, Academy of Sciences of the U.S.S.R., Dalniye Zelentsy.
(Kamchatka—Crabs)

GALKIN, Yu.I.

Perennial changes in the distribution of bivalved mollusks in the southern part of the Barents Sea. Trudy MMBI no.6:22-40 '64. (MIRA 17:11)

1. Laboratoriya bentosa Murmanskogo morskogo biologicheskogo instituta.

TSEYEB, Rimma Yakovlevna; GALKIN, Yu.I., otv. red.

[Feeding habits and adaptation to food of the Barents Sea haddock] Pitanie i pishchevye adaptatsii pikshi Barentseva moria. Moskva, Nauka, 1964. 133 p. (MIRA 17:11)

VASSERMAN, I.S.; GALKIN, Yu.L.

Ejector pumping of gasoline from tank cars. Neftianik 5 no.1:17-18 Ja '60. (MIRA 13:11)

1. Glavnyy inzhener Uzglavneftesnabsbyta (for Vasserman).
2. Nachal'nik ekspluatatsionno-tekhnicheskogo otdela (for Galkin).
(Gasoline) (Tank cars)

VASSERMAN, I.S.; GALKIN, Yu.L.

Effectiveness of using submerged ejectors in discharging high-vapor pressure gasoline. Neft. khoz. 38 no.4:61-63 Ap '60. (MIRA 14:8)

(Uzbekistan—Gasoline) (Ejector pumps)

GALKIN, Yuri Mikhaylovich.

Automobile-tractor electrical equipment. Moskva, Gos. nauch.-tekhn. izd-vo mashinostroit. lit-ry, 1942. 362 p. (49-55410)

TL272.G3 1942

GALKIN, Yuriy Mikhaylovich.

Automobile-tractor electrical equipment. 2. izd., dop. Moskva, Gos. nauch.-tekhn. izd-vo mashinostroit. lit-ry, 1948. 431 p. (48-26074)

TL272.G3 1948

GALKIN, Yuriy Mikhaylovich.

The electrical equipment of automobiles. Moskva, Voen. izd-vo, 1949. 267 p.
(49-54282)

TL272.G32

GALKIN, Yuriy Mikhailovich

Analiz razvitiia elektromobilei i perspektivy ikh primeneniia v SSSR. [Analysis of development of electromobiles and the prospects of their use in the USSR]. Moskva, Mashgiz, 1951, 40 p.

Avtotraktornoe elektrooborudovanie. [Electric equipment of automobiles and tractors]. Dopushcheno v kachestve uchebnika dlia avtomekhanicheskikh vuzov i fakul'tetov. Moskva, Gos. nauch.-tekhn. izd-vo mashinostroit. lit-ry, 1942. 362 p. illus. Includes bibliographies DLC: TL272.G3 1942

Avtotraktornoe elektrooborudovanie. [Electric equipment of automobiles and tractors]. Dopushcheno v kachestve uchebnika dlia vtuzov. 2. izd., dop. Moskva, Gos. nauchn.-tekhn. izd-vo mashinostroit. lit-ry, 1948. 431 p. diagrs. "Literatura" at end of each chapter.

DLC: TL272.G3 1948

Elektrooborudovanie avtomobilei. [Electric equipment of automobiles]. Moskva, Voen. izd-vo, 1949. 267 p. diagrs.

DLC: TL272.G32

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

1. GALKIN, YU. M.

2. USSR (600)

4. Technology

7. Electric equipping of automobiles. Izd. 2., ispr. Moskva, Voenizdat, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

GALKIN, YU. M.

RASKATOV, A.I., dotsent; GALKIN, Yu.M., dotsent, kandidat tekhnicheskikh nauk, retsenzent; YEGOROV, V.V. [deceased], dotsent, kandidat tekhnicheskikh nauk, retsenzent; KHLEBODAROV, S.F., inzhener, retsenzent; MAYKOPAR, M.B., dotsent, kandidat tekhnicheskikh nauk, nauchnyy redaktor; KOPTEVSKIY, D.Ya., redaktor; SUSLOV, P.V., redaktor literatury po metalloobrabatyvayushchim professiyam, inzhener; RAKOV, S.I., tekhnicheskiy redaktor.

[Problems in electrical engineering, electrical measurement, electric machinery, and electrical equipment] Zadachnik po elektrotekhnike, elektricheskim izmereniiam, elektricheskim mashinam i elektrooborudovaniiu. Moskva, Vses.uchebno-pedagog. izd-vo Trudrezervizdat, 1954. 413 p. (MLRA 7:11)

(Electric engineering--Problems, exercises, etc.)

GALKIN, Yuriy Mikhaylovich; MASTYAYEV, N.Z., kand.tekhn.nauk, retsenzent; BOROVSKIKH, Yu.I., kand.tekhn.nauk, retsenzent; GOL'DBERG, G.I., inzh., red.; FAL'KO, O.S., red.izd-va; EL'KIND, V.D., tekhn.red.

[Electric equipment of automobiles and tractors] Elektrooborudovanie avtomobilei i traktorov. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 275 p. (MIRA 13:11)

1. Kafedra "Elektrooborudovaniye samoletov i avtomobiley" Moskovskogo energeticheskogo instituta (for Mastyayev). 2. Moskovskiy avtomekhanicheskiy institut (for Borovskikh).
(Automobiles--Electric equipment)
(Tractors--Electric equipment)

GUROV, Ivan Nikolayevich; KONONOV, Mikhail Ippolitovich; NAZAROV, G.I., doktor tekhn.nauk, retsenzent; PETRUSOV, A.I., doktor tekhn.nauk, retsenzent; GALKIN, Yu.M., red.; PAL'KO, O.S., red.izd-va; SOKOLOVA, T.F., tekhn.red.

[Electric equipment of agricultural machinery] Elektrooborudovanie sel'skokhoziaistvennykh mashin. Pod obshchei red. IU.M. Galkina. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 248 p. (MIRA 14:3)

1. Moskovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva (for Nazarov). 2. Khar'kovskiy politekhnicheskiy institut (for Petrusov).
(Agricultural machinery--Electric equipment)

PAVLAK, Milan, inzh.; KOSHKINA, V.K. [translator]; GALKIN, Yu.M., kand. tekhn. nauk, red.; LEZHNEVA, Ye.I., red. izd-va; EL'KIND, V.D., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Electric equipment of motorcycles. Translated from the Czech] Elektrooborudovanie mototsikla. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 196 p. (MIRA 14:6)
(Motorcycles—Electric equipment)

GALKIN, Yu.M.

Calculating the wear and charging balance of electric equipment systems. Avt.prom. no.3:4-10 Mr '61. (MIRA 14:3)

1. Nauchno-issledovatel'skiy eksperimental'nyy institut avtotraktornogo elektrooborudovaniya i priborov.
(Automobiles—Electric equipment)

LEVIN, A.F.; MASTYAYEV, N.Z., kand. tekhn. nauk, retsenzent; GALKIN, Yu.M., kand. tekhn. nauk, red.; VASIL'YEVA, I.A., red.izd-va; GORDEYEVA, L.P., tekhn. red.

[Reliability of the electrical equipment and devices of motor vehicles and tractors] Nadezhnost' avtotraktornogo elektrooborudovaniia i priborov. Moskva, Mashgiz, 1963. 114 p. (MIRA 17:2)

CHUKHLANTSEV, V.G.; GALKIN, Yu.M.

Solid-phase reactions in the process of decomposition of zircon by calcium oxide. Dokl. AN SSSR 161 no.1:171-174 Mr '65.

(MIRA 18:3)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova. Submitted August 5, 1964.

a L 10365-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/WW/JG/WH

ACC NR: AP5028731 SOURCE CODE: UR/0363/65/001/011/2000/2004

AUTHOR: Galkin, Yu. M.; Chukhlantsev, V. G.

ORG: Ural Polytechnic Institute im. S. M. Kirov, Sverdlovsk (Ural'skiy politekhnicheskiy institut)

30
29 B

TITLE: Study of the subsolidus part of the $SrO-ZrSiO_4$ system

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 11, 1965, 2000-2004

TOPIC TAGS: zirconium compound, strontium compound, silicate

ABSTRACT: The subsolidus part of the $SrO-ZrSiO_4$ system was studied at 1150 and 1350°C in pressed and sintered samples with molar ratios of $SrO:ZrSiO_4$ ranging from 9 to 0.5. The phase composition of the products formed by zircon with strontium oxide was determined by chemical, x-ray diffraction and petrographic analyses. From the data obtained, a tentative plot of the subsolidus part of the $SrO-ZrSiO_4$ system was made (see figure 1). Strontium zirconium silicate $Sr_6ZrSi_5O_{18}$ and strontium orthozirconate were identified but Sr_3SiO_5 and Sr_2ZrO_4 were not formed. No attempt was made to determine the possible regions of existence of solid solutions. The authors thank

UDC: 541.123.35

Card 1/2

L 10865-66

ACC NR: AP5028731

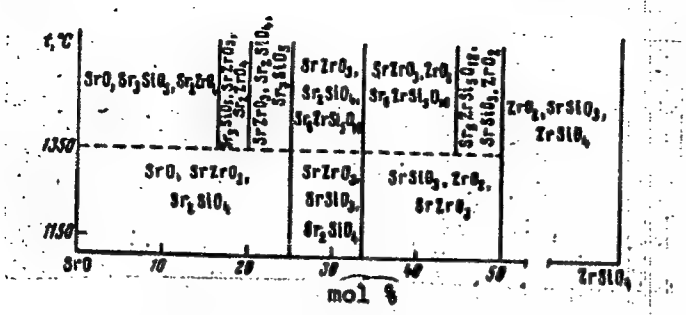

Fig. 1. Structure of the subsolidus part of the $SrO-ZrSiO_4$ system.

Prof. P. S. Dear for a reprint of his paper. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 07, 11/ SUBM DATE: 20Apr65/ ORIG REF: 005/ OTH REF: 003

HW

Card 2/2

L 13852-66 EWT(m)/EPF(n)-2/EWP(t)/EWP(b) IJP(c) JD/WW/JG

ACC NR: AP6002816 (A) SOURCE CODE: UR/0078/66/011/001/0216/0219

AUTHORS: Galkin, Yu. M.; Chukhlantsev, V. G.

ORG: Ural Polytechnic Institute im. S. M.Kirov (Ural'skiy politekhnicheskiy institut)

TITLE: Obtaining of strontium and barium zirconates under hydrothermal conditions

SOURCE: Zhurnal neorganicheskoy khimii, v. 11, no. 1, 1966, 216-219

TOPIC TAGS: strontium compound, barium compound, zirconium compound, zirconate

ABSTRACT: To extend the currently available data on the synthesis of strontium and barium zirconates under hydrothermal conditions, the reaction of $Sr(OH)_2$ and $Ba(OH)_2$ with calcined ZrO_2 and zirconyl oxychloride was studied. The reactions were carried out in the autoclave in a carbon dioxide-free atmosphere over a temperature range 200C--350C. The experimental results are tabulated. A microphotograph of $BaZrO_3$ is presented. X-ray powder spectra of the synthesized compounds were determined. It was found that in the temperature range 180--350C and reagent ratio $MeO:ZrO_2$ of 1.5:3 (where Me = Ba, Sr) a metazirconate of Ba and Sr is formed, while the corresponding calcium metazirconate is not formed under these conditions. It is concluded that the hydrothermal method for the synthesis of $BaZrO_3$ and $SrZrO_3$ yields a better quality

Card 1/2 UDC: 546.831.4'42-31+546.831.4'431-31

L 13852-66

ACC NR: AP6002816

product than the oxide-sintering method. Orig. art. has: 1 table, 1 photograph, and 1 graph.

SUB CODE: 07/ SUBM DATE: 20Apr65/ ORIG REF: 004/ OTH REF: 003

Card 2/2

GALKIN, Yu.M.; CHUKHLANTSEV, V.G.

Study of the system BaO - ZrO_2 in the region rich in BaO.
Izv. AN SSSR. Neorg. mat. 1 no.11:1952-1954 N '65.
(MIRA 18:12)
1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova, Sverdlovsk.

GALKIN, Yu.M.; CHUKHLANTSEV, V.G.

Subsolidus part of the system SrO - $ZrSiO_4$. Izv. AN SSSR. Neorg. mat. 1 no.11:2000-2004 N '65. (MIRA 18:12)

1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova. Sverdlovsk. Submitted April 20, 1965.

GAIKIN, Yu.M.; CHUKHLANTSEV, V.G.

Production of strontium and barium zirconates under hydrothermal conditions. Zhur.neorg.khim. 11 no.1: 216-219 Ja '66.

(MIRA 19:1)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova. Submitted April 20, 1965.

L 05091-67 EWT(m)/EWP(e)/ETI IJP(c) JD/WW/JG

ACC NR: AP6027960

SOURCE CODE: UR/0020/66/169/003/0645/0647

AUTHOR: Chukhlantsev, V. G.; Galkin, Yu. M.

ORG: Ural Polytechnic Institute im. S. M. Kirov (Ural'skiy politekhnicheskiy institut)

32
B

TITLE: Study of the $BaO-ZrO_2-SiO_2$ system at subsolidus temperatures

SOURCE: AN SSSR. Doklady, v. 169, no. 3, 1966, 645-647

TOPIC TAGS: barium compound, zirconium compound, silicate, PHASE DIAGRAM

ABSTRACT: The subsolidus structure and ternary compounds of the $BaO-ZrO_2-SiO_2$ system (prepared by sintering powdered SiO_2, ZrO_2 and $BaCO_3$) was studied by using x-ray phase, chemical and in some cases petrographic methods of analysis. In the BaO-rich region, the coexisting phases are $Ba_3SiO_5-Ba_2SrO_4$; $Ba_3SiO_5-BaZrO_3$; $Ba_2SiO_4-BaZrO_3$; $BaSiO_3-BaZrO_3$. The composition of two additional compounds was established by studying the triangular phase diagrams of the systems $BaSi_3O_8-ZrO_2-Ba_2Si_3O_8$ and $Ba_2Si_3O_8-ZrO_2-SiO_2$; their formulas are $2BaO \cdot 2ZrO_2 \cdot 3SiO_2$ and $BaO \cdot ZrO_2 \cdot 3SiO_2$. These zirconium silicates are obtained by sintering from the oxides for 24-30 hr at 1300°C. Their physicochemical properties were determined, and their x-ray powder patterns are given. The paper was presented by Academician Belov, N. V., 25 Nov 65. Orig. art. has: 3 figures and 1 table.

SUB CODE: 07/ SUBM DATE: 18Nov65/ ORIG REF: 005/ OTH REF: 004

UDC: 541.123.35

Card 1/1 LC

ALEKSANDROV, A.G., kand. tekhn. nauk; BRAUN, M.F., doktor tekhn. nauk;
Prinimali uchastiye: GOL'VERK, I.M.; BERKUN, M.N.; KUPRENKO, L.M.;
GALKIN, Yu.N.

Cast, nickel-free, heat-resistant alloys. Lit. proizv. no.12:
8-10 D '65. (MIRA 18:12)

GALKIN, Yu.P., kandidat tekhnicheskikh nauk; BEZRUKOV, F.V., inzhener.

Tubular discharge arresters. Vest. elektroprom. 28 no.3:25-35 Mr '57. (MIRA 10:4)

1. Vsesoyuznyy elektrotekhnicheskiy institut im. Lenina.
(Lightning protection)

GALKIN, YU. P.

S/196/61/000/009/038/052
E194/E155

AUTHORS: Bezrukov, F.V., Vol'kenau, V.A., Galkin, Yu.P., Pruzhinina-Granovskaya, V.I., Savel'yev, V.P., and Shmatovich, V.V.

TITLE: A standard series of main parameters of valve and tubular type lightning arresters (for discussion)

PERIODICAL: Referativnyy zhurnal, Elektrotrkhnika i energetika, no.9, 1961, 38, abstract 9I 245. (Vestn. elektroprom-sti, no.12, 1960, 27-31)

TEXT: The article proposes the classification of valve and tubular lightning arresters into a standard series of main parameters. Magnetic-valve arresters developed for 110-120 kV are of improved protective characteristics, so permitting reduction in impulse test voltages and also facilitating insulation of transformers and equipment. In order to improve the technical and economic characteristics of Soviet 220-500 kV transformers it is necessary to improve the protection ratio of lightning arresters to 2.0 - 1.9 and of machine arresters to 1.8 - 1.9. On the basis of analysis of the current standard for valve-type arresters, of a

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A standard series of main parameters.. S/196/61/000/009/038/052
E194/E155

draft standard for magnetic-valve arresters, and of the prospects of developing new arresters with improved protection, the following series of protection ratios is recommended for arresters rated from 3 to 500 kV: 3.3-3.1; 3.0-2.8; 2.6-2.5; 2.5-2.3; 2.2-2.1; 2.0-1.9; 1.9-1.8. It is recommended that the standard series of arresters rated from 3 to 220 kV should be arranged according to the parameters of the maximum value of short-circuit current interrupted in each voltage class, with an indication of the minimum permissible value of the ratio of highest to lowest short-circuit current interrupted. It is possible to increase the interrupting capacity of tubular arresters type PTB (RTV) by reinforcing them by a multi-layer winding of glass fibre cloth grade ЭСТВ-6 (ESTV-6) applied to the thin-walled arc-suppression tube, which is made of hard polyvinyl chloride plastic. In this way arresters have been developed for voltages of 35 - 110 kV and short-circuit currents of 20 kA. However, it is not yet technically possible to develop tubular arresters for voltages of 35 - 220 kV for interrupting short-circuit currents exceeding 30 kA, and coordinating gaps combined with automatic repeated reclosure of the lines are the recommended alternative.

Card 2/4

A standard series of main parameters.. S/196/61/000/009/038/052
E194/E155

A standard series of tubular arresters from 3 to 220 kV selected according to the maximum values of short-circuit current interrupted can be: 2.5; 5; 10; 20; and 30 kA effective. Here the minimum ratio of the maximum permissible short-circuit current to the minimum for tubular arresters of 3 - 6 - 10 kV should be 8; for those of 35 - 60 - 110 - 220 kV the recommended figure is 5. In conformity with the existing standard series of tubular arresters, the nomenclature РТФ (RTF), RTV, and РТВУ (RTVU) is applied to the new arresters in the range from 3 to 220 kV. They should be developed and manufactured for various voltages and ranges of short-circuit current interrupted, and each voltage class should be provided with fittings for mounting and recording operations. It is proposed to develop tubular arresters for voltages of 3 - 6 - 10 kV using cheap, strong and moisture-resistant materials, and to satisfy the demand for tubular arresters for 35 - 60 - 110 - 220 kV by types RTV and RTVU. The proposed classification will help to avoid duplication of manufacture of electrical equipment and will most conveniently satisfy the design organisations, operating companies and

Card 3/4

A standard series of main parameters.. S/196/61/000/009/038/052
E194/E155

industry in respect of range and parameters of protective devices. Tables are given indicating the nomenclature and main parameters of the valve-type and the tubular dischargers which are in production or will be produced.

[Abstractor's note: Complete translation.]

Card 4/4

DAVYDOVA, Lyudmila Georgiyevna; GALKIN, Yu.P., otv. red.; KOBRANSKAYA, R.M., red. izd-va; POLYAKOVA, T.V., tekhn. red.

[Means of protection against electric overvoltages] Sredstva zashchity ot elektricheskikh perenapriazhenii; istoricheskii ocherk. Moskva, Izd-vo Akad. nauk SSSR, 1961. 92 p. (MIRA 15:5)

(Electric protection)

BEZRUKOV, F.V.; GALKIN, Yu.P.

Nomenclature of tubular protective gaps. Standartizatsiia 26 no.5:43-46 My '62. (MIRA 15:7)

(Electric protection--Nomenclature)

BEZRUKOV, F.V., inzh.; GALKIN, Yu.P., kand.tekhn.nauk; YURIKOV, P.A., inzh.

Installation of tubular dischargers. Energetik 11 no.9:10-13 S '63. (MIRA 16:10)

BAKAREV, P.I., inzh., Geroy Sotsialisticheskogo Truda; GALKIN, Yu.V., inzh.

Laying track in 25 m. sections with a tractor-type gantry track layer. Transp. stroi. 11 no.5:7-10 My '61. (MIRA 14:6)

(Railroads—Tracklaying machinery)

SILNOV, Yu. V.

"Preservation of the Sperm of Rams at Temperatures Below 0°C (-1 to 10°)." Cand Biol Sci, All-Union Sci Res Inst of Animal Husbandry, Moscow, 1954. (RZhBiol, No 7, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

Q

COUNTRY : USSR
CATEGORY : Farm Animals. Cattle

ABS. JOUR. : RZBiol., No. 13, 1958, No. 59520

AUTHOR : Galkin, Yu. V.
INST. : Scientific Research Institute of Agricul-*
TITLE : Bacteriostatic Action of Synthetic Media with Glycerin when Used for the Dilution and Storage of Bull Semen
ORIG. PUB. : Byul. nauchno-tekhn. inform. N.-i. in-ta s. kh. sev.-vost. r-nov nechernozemn. polosy,**

ABSTRACT : A mixture composed of 10% glycerin, 50% isotonic solution of glucose and 40% isotonic solution of trisubstituted sodium citrate was used as a bull semen diluent. 10-20% of egg yolk was introduced into the mixture to prevent cold stroke. The semen was diluted

* ture of Northeastern Rayons of the Non-Chernozem Belt
** 1957, No 2-3, 52-54

CARD: 1/2

GALKINA, A.F.

BESSONOV, S.M.; GALKINA, A.F.; KOCHETKOVA, Z.V.; MATSKO, S.N.; PIROGOV, N.M.

Use of vitamin-enriched fats to increase the vitamin content of food served at public eating establishments. Vop.pit. 13 no.5:22-24 S-O '54. (Vitamins) (Food, Enriched) (MLRA 7:9)

GALKINA, A.F.

Vitaminization of meals in public restaurants. V. [illegible] Berezovskaya, S. M. Bessonov, A. P. Galkina, V. [illegible] [illegible]hunova, Z. S. Grafskaya, A. T. Zimello, G. G. Lagu[illegible] N. Kalinina, Z. V. Kochetkova, S. N. Mitsko, L. [illegible] Orlova, and A. A. Tupikova (Nutrition Inst., Acad. Med. Sci. U.S.S.R., Moscow). *Voprosy Pitaniya* 15, No. 5, 37-42(1956).—In a series of expts. conducted in several restaurants it was shown that vitamin C can be greatly increased in the meals by using vitaminized salt (to kitchen salt contg. 0.15% moisture was added 0.5% ascorbic acid). Vitamin A can be increased in the meals by using vitamin A-enriched fat and the destruction of the vitamin during the meals' prepn. can be prevented by adding to the edible fats a mixt. of tocopherols (I). By exp. data, of corn and soybean oils, prepns. of I have been obtained contg. 7.8% of a mixt. of α-, β-, and γ-I. The meals prepd. by using fats contg. 0.75 mg. % of I contained 70-80% of the original amt. of vitamin A in the foods used for the prepn. of the meals. E. Wierbicki

Laboratorii (zav.-A.Kh.Petrachev) sanitarno-epidemiologicheskoy stantsii [illegible] [illegible]skogo rayona, iz otdela tekhnologii (zav.-kandidat tekhnicheskikh nauk [illegible] [illegible] Bessonov) Instituta pitaniya AMN SSSSR i iz A.D.Ye-vitaminnogo otdela [illegible] (zav.-prof. S.M.Metsko) Gosudarstvennogo nauchno-issledovatel'skogo instituta vitaminologii Ministerstva zdravookhraneniya SSSR, Moskva.

GALKINA, A. F.

Enriching sugar with vitamin C. N. N. Berezovskaya, A. F. Galkina, V. I. Gorbunova, and S. N. Matsko (State Sci. Research Vitamin Inst., Moscow). *Voprosy Pitaniya* 15, No. 5, 76-7(1956).—Sugar with 0.15% added ascorbic acid (I) was of the same color and contained about 60% of the added amt. of I after one year of storage in hermetically sealed containers. B. Wierbicki

MATZKO, S.N.; GORBOUNOVA, V.I.; ANISOVA, A.A.; JMEIDO, A.T.; GALKINA, A.F.

Criteria of vitamin C supply of the body. (Results of observations carried out on animals). J. hyg. epidem. 6 no.4:399-406 '62.

1. L'Institut de Vitaminologie du Ministere de la Sante de l'URSS, Moscou.

(ASCORBIC ACID)

VINOKUROVA, M.D., rabotnik pavil'ona,; GALKINA, A.G., rabotnik pavil'ona,; GITIS, Ya.Ye., rabotnik pavil'ona,; DERGACHEVA, V.I., rabotnik pavil'ona; ZAK, R.G., rabotnik pavil'ona,; RAKSHA, N.A., rabotnik pavil'ona,; SALEY, Ye.A., rabotnik pavil'ona,; TARAKANOV, G.N., rabotnik pavil'ona,; TOMASHUK, F.A., otv. red.; DMITRIYEVA, L.A., red.; LUKINA, L Ye., tekhn. red.

[Far East] Dal'nii Vostok. Moskva, Izd-vo "Sovetskaia Rossiia," 1958. 109 p. (MIRA 11:12)
(Soviet Far East--Agriculture)

VASIL'YEV, Nikolay Vasil'yevich, prof.; GALKINA, A.G., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Further specialization and the distribution of agricultural production] Dal'neishaia spetsializatsiia i razmeshchenie sel'skokhoziaistvennogo proizvodstva. Moskva, Izd-vo "Znanie," 1960. 45 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.5, Sel'skoe khoziaistvo, no.18). (MIRA 13:10)

(Agricultural geography)

ACHKASOVA, I.O.; GAIKINA, A.G.; YEFREMOV, I.I.; SMAKHTINA, Yu.B.; KOMISSAROVA, M.T.; SOVETOVA, L.Ye.; CHISTIKOVA, A.I.; SHAKHOVA, A.N.

Effectiveness of ambulatory treatment of cholelithiasis patients at Zheleznovodsk Health Resort. Sbor. nauch. rab. vrach. san.-kur. uchr. profsoiuzov no.1:121-125 '64.

(MIRA 18:10)

1. Zheleznodorozhnaya kurortnaya poliklinika (glavnyy vrach I.I. Yefremov).

KOZAROVITSKIY, A.L., (Moscow); GALKINA, A.L., (Moscow).

Method for obtaining standard prints for testing of laboratory characteristics of colored ink. Poligr. proiz. 4:27-30 Ap '53. (MLRA 6:6)
(Color-printing) (Printing-ink)

KUZ'MINA, N.N.; GALKINA, A.N.; LALETIN, L.V.; SUROVA, G.A.; IGNAT'YEVA, V.V.; DERYABINA, V.P.; CHOVNYK, N.G., kand. khim. nauk, red.; MIKHEYEV, N.I., red.; ANTONOV, V.P., tekhn. red.

[Methods for the analysis of elctrolytes and solutions of galvanic and chemical coatings; a manual for workers in industrial laboratories] Metody analiza elektrolitov i rastvorov gal'vanicheskikh i khimicheskikh pokrytii; spravochnoe posobie dlia rabotnikov zavodskikh laboratorii. Kuibyshev, TSentr. biuro tekhn. informatsii, 1960. 215 p. (MIRA 14:7)

1. Kuybyshev (Province)
(Protective coatings) (Chemistry--Laboratory manuals)

BR

ACCESSION NR: AP4026955 S/0258/64/004/001/0060/0068

AUTHORS: Galkina, A. P. (Novosibirsk); Kurshin, L. M. (Novosibirsk); Styuteyuk, V. I. (Novosibirsk)

TITLE: Stability of a heated fastened plate under displacement

SOURCE: Inzhenernyy zhurnal, v. 4, no. 1, 1964, 60-68

TOPIC TAGS: stability, heated plate, fastened plate, square plate, plane form of equilibrium, curved form of equilibrium, temperature stress, bifurcation deflection

ABSTRACT: The authors consider the case of instability of a curved form of equilibrium (caused by preliminary heating) in contrast to the usual formulation of plate stability problems involving instability of the plane form of equilibrium for a heated square plate with fastened contours under displacement. Graphical comparisons are made between experimental data and the numerical results derived in the paper. Orig. art. has: 6 figures and 31 formulas.

ASSOCIATION: none

Card 1/2

ACCESSION NR: AP4026955

SUBMITTED: 19Aug62 DATE ACQ: 15Apr64 ENCL: 00

SUB CODE: AP NO REF SOV: 004 OTHER: 000

Card 2/2

L 11154-67 EWT(m)/EWP(e) WH

ACC NR: AP6034213 SOURCE CODE: UR/0368/66/005/004/0451/0455

AUTHOR: Gorodinskiy, G. M.; Galkina, B. N.

ORG: none

27

TITLE: Problem of perturbation of light coherence by frosted glass surfaces

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 4, 1966, 451-455

TOPIC TAGS: light coherence, frosted glass, optic glass, surface roughness, refractive index, glass surface, light transmission

ABSTRACT: A study was made of the degree of perturbation passing through an uneven frosted glass surface prepared from five types of optical glass. The glasses were wetted with distilled water, glycerin, and cedar oil. The measurements have been made using the photoelectric apparatus assembled according to the Young diagram. Curves have been plotted from which one can see the character of visibility change of the interference pattern as a function of the degree of roughness of the frosted glasses and the difference in the refractive indices of the samples and immersion liquids. The coefficient of coherence k changes from 0.96 to 0.40 and depends linearly on the optical path difference between the beams passing through

Card 1/2 UDC: 535.41

L 11154-67
ACC NR: AP6034213

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the glass and the liquid. Orig. art. has: 3 figures, 3 formulas, and 1 table. [Based on authors' abstract]

SUB CODE: 03, 20/SUBM DATE: 06May65/ORIG REF: 004/OTH REF: 005/

Card 2/2 mle

BALTINA, G. I.

"Immunological Indexes in Patients With Chronic Bacillary Dysentery." Thesis for degree of Cand. Medical Sci. Sub 23 Jun 49, First Moscow Order of Lenin Medical Inst.

Summary 22, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

RUBINSHTEYN, M.Ya.; GALKINA, G.V.

Processing of wheat into starch at potato-starch factories, now in operation. Sakh.prom. 34 no.2:54-57 F '60. (MIRA 13:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut karkhmalo-patochnoy promyshlennosti.
(Starch) (Wheat)

KANTSEPOL'SKIY, I.S.; GALKINA, G.V.; MILOGRADSKAYA, A.I.

Anhydrite cement of Isfarinsk and Kamyshbashinsk deposits. Trudy Inst. Khim., Akad. Nauk Uzbek S.S.R., Inst. Khim., Obshchaya i Neorg. Khim. No.2, 12-26 '49. (MLRA 5:12)
(CA 47 no.17:8983 '53)

GALKINA, G. V.

Galkina, G. V. - "The hardening of calcium monaluminate in solutions of chlorides," Trudy In-ta khimii (Akad. nauk Uzbek SSR), Issue 2, 1949, p. 58-69, - Bibliog: 5 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

GALKINA, G. V.

Journal of the American
Ceramic Society
Vol. 37 No. 5
May 1, 1954
Cements, Limes, and Planters

Pack

(3)

Effect of different gypsum modifications on the sulfate resistance of Portland cement with and without *gliezh*. I. S. KANTSEPOL'SKIĬ AND G. V. GALKINA. *Trudy Inst. Khim. Akad. Nauk Uzbek. S.S.R.*, 3, 115-32 (1952). The addition of up to 15% of gypsum dihydrate, hemihydrate, and anhydrite to Portland cement with and without *gliezh* resulted in rapid reaction between the gypsum and Ca aluminates, with the formation of sulfoaluminates. Reaction was most intensive for Portland cement, followed by Portland cement containing 30% *gliezh*; the intensity decreased as the *gliezh* content increased to 50%. The gypsum is bound during the first periods of hardening. Sulfate resistance of cements containing about 7% $3CaO \cdot Al_2O_3$ was raised noticeably by the addition of about 15% gypsum. Portland cement containing 50% *gliezh* showed considerable sulfate resistance even without the addition of gypsum. The work will be continued. Cf. "Hardening of *gliezh*...," this section. B.Z.K.

GALKINA, G.V.

Chemical Abst.
Vol. 48
Apr. 10, 1954
Cement, Concrete, and Other Building Materials

Effect of different modifications of gypsum on the sulfate resistance of portland cement with and without gliezh. I. S. Kantsepol'skii and G. V. Galkina. *Trudy Inst. Khim., Akad. Nauk Uzbek. S.S.R.* 3, 115-32(1952).—Addn. of up to 15% of $CaSO_4.2H_2O$, $CaSO_4.\frac{1}{2}H_2O$, and $CaSO_4$ to portland cement with and without gliezh results in rapid chem. reaction with Ca aluminates, forming sulfoaluminates. A more intensive reaction occurs for portland cement than for portland cement contg. 30% gliezh; the intensity decreases for 50% gliezh. The gypsum is bound during the first periods of hardening. Addn. of up to 15% gypsum to the cements contg. about 7% $3CaO.Al_2O_3$ raised their sulfate resistance noticeably. Even without the addn. of gypsum, portland cement contg. 50% gliezh showed considerable sulfate resistance. B. Z. Kamich